

### Abstract

The invention relates to a method for oligomerizing olefins according to which an olefin is brought into contact with a catalyst system comprising: a) at least one transition metal complex having a multidentate complex ligand, and; b) an alkylalumoxane in quantities in which the molar ratio of aluminum to transition metal is greater than 10, whereby at least one portion of the quantity of the transition complex is added continuously or in portions over the course of oligomerization. The method enables the production of greater quantities of olefin oligomers with a given quantity of alkylalumoxane.